NPIC/TDS/D-721-67
2 March 1967

MEMORANDUM FOR THE RECORD

SUBJECT: NRTSC Proposed use of RT-12 Reversal Processor.

1. On 28 February 1967 [redacted] visited NPIC for discussion with [redacted] proposing that their negatives from the Gamma I Rectrifier and certain other cut sheets from other printers be brought to NPIC for reversal processing as a means of conserving costs of film, labor, and chemicals.

2. The magnitude of this operation is approximately 1,500 frames of 10 feet each per year or 15,000 feet of 9.5 inch film per year. This will average about 300 feet of film per week. The processing can be done at any convenient time, once or twice per month.

3. [redacted] expressed a desire to cooperate with NRTSC in this endeavor and will brief [redacted] as a matter of information.

4. It was decided that initial actions would be taken as follows:

a. [redacted] will arrange to have the RT-12 Processor "tuned up" and checked out by [redacted] representatives and advise [redacted] when the machine is ready for operation.

b. [redacted] will prepare a test run by printing a small roll of film and several cut sheets for reversal processing (on 8430 emulsion). Should NRTSC not have on hand 8430 film, [redacted] will furnish sufficient film for the test.

c. [redacted] will, when informed that material has been printed, arrange a place in the laboratory schedule for the test and inform [redacted] of the date and time. TDS/DS will relay this infomation to NRTSC [redacted] 199 - 361).

[redacted]
Support Systems Branch, TDS/DS

Distribution:
Original - Route and File
1 - Acting Executive Officer, TD
1 - Ch/PSD
2 - TDS/DS

CONFIDENTIAL

START UP CHECK LIST FOR RT-12

1. Check all switches on control panel for off position.

2. Close master line switch on wall.

3. Turn main switch (control panel) to on.

4. Set drive speed control to 0.

5. Turn drive switch to on position, turn speed control to required speed.

6. Open water and air valves (fig. 1) all the way.

7. Open air valve on wall and adjust to 40 lbs.

8. Adjust air valve (replenish fig. 2) to 4 lbs.

9. Open rinse water valve (fig. 3) one turn.

10. Turn all recirculation pump switches to on position and immdediately--

11. Check pressure guages (fig. 4). Should read 20-25 lbs except for tank 7 which should be at least 10. If any are 0 or low immediately open pertinent pump bleeder (fig. 5). If this does not restore pressure, shut down pump immediately and inspect tank for solution level, which should not be more than 12 inches below top of tank.

12. Check filter-output guage, to left of filter-by-pass valve, except for #7. It should read 10 or better. #6 should be at least 5. If any are below 5, the filter should be changed. (See page 73 of manual).

13. Turn on replenish switches (fig. 6) and after inserting film in air switches (fig. 7) adjust flow-meters (fig. 8) to proper value.

14. Set temperature control (fig. 9) to desired temperature; this meter reads the temperature of the developer as it leaves the heat exchanger. Leave the machine running for about 15 minutes to stabilize the tank contents and read again.

15. Set water flow Rotosights (fig. 10) by adjusting valve below each Rotosight. Since the wash water is the out-put from the heat exchangers, the main air supply must be turned on before these can be adjusted.

16. Turn on dryer drive (fig. 11). Check heater selector (fig. 12) for desired step (it must not be between steps) for 70mm film or when operating at low speeds it can be set at 4; otherwise at 5.

17. Set blower selector (fig. 13) to 3. If a large roll of 9 inch film is being processed at high speed set to maximum.

18. After dryer has been running for at least 15 minutes check dryer temperature on meter (fig.14). For small rolls or cut sheets it should read about 110°--for large rools of wide film it should be 120° or more. If it is low cut in additional heaters on the heat selector.

19. Check the damper in the dryer stack (fig. 15). It should be about one fourth open. If the film tends to be moist open a little more to permit the moisture laden air to escape.

20. Check the re-exposure lamp air tube (fig. 16) to be sure it is connected to the blower and to the lamp.

21. Turn on the lamp switch (fig. 17) and adjust to the desired amperage on fig. 18.

You are now ready to process reversal film.

25X1

Contract [redacted]

ACTIVE PAR TITLES AND PROPOSED CONDENSED TITLES

PAR	Title	Proposed Condensed Title*
202	Briefing Print Enlarger	Same as title.
203	Rapid Access Printer	Same as title.
206	Reversal Processing of High-Resolution Films Study	Reversal Processing Study
207	Definitive Study of Contact Printers	Contact Printer Study
211	Microdensitometer Study of Effects of Processing	Image Effects Study
212	Color Acquisition System Review Study	Color Acquisition Study
213	Color Reproduction Systems Review	Color Duplication Study
214	Roller Transport Reversal Processor (12-Inch)	[redacted]
215	Roller Transport Processor (24-Inch)	Processor RT-24
216	Exposure of Photographic Material with Lasers	Laser Photographic Exposure
217	Optimization of Lasers	Same as title.
222	Stereo Registration Systems	Stereo Registration System
223	Monochromatic Lens System	Monochromatic Lenses
224	3X - 15X Fluid Gate Enlarger	Fluid Gate Enlarger
225	Microdensitometer Training Program	Microdensitometer Training
226	Analysis of Photographic Images to Evaluate System Performance	Photographic Image Analysis

*Condensed titles are to contain a maximum of 30 characters including spaces.

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